

[Description of DE10109964](#)[Print](#)[Copy](#)[Contact Us](#)[Close](#)

Result Page

Notice: This translation is produced by an automated process; it is intended only to make the technical content of the original document sufficiently clear in the target language. This service is not a replacement for professional translation services. The esp@cenet® Terms and Conditions of use are also applicable to the use of the translation tool and the results derived therefrom.

The instant invention concerns a label, in particular a label for covering informations, exhibiting at least a base layer and at least a top layer, which are more removable the base layer at least partial hidden and by scratching irreversible, in order to make the hidden informations more visible, which between the base layer and the top layer arranged are.

Such labels are among other things at present far common from DE 197 05 380 c1 known and. They become for example covering Gewinnnummern on Lotterielosen or pin codes on different documents used. For such operational areas is sufficient it, if the top layer, which is applied on the base layer printed with digits, letters or other symbols, relative easy by so called "Rubbeln", D. h. intensive rubbing with the fingernail to remove is, since the top layer before its intended removal for an ordinary larger mechanical or other schleissenden load is not exposed.

On the other hand there are however applications, is required for which it that informations on a label at exposed location remain long time by a top layer reliable hidden, until them control purposes exposed to become to have. In such cases the top layer must become very stable performed, so that it can be scraped off only with the help of a tool, for example a screwdriver blade or a stable knife. Here the risk exists that by use of the tool the informations printed on the base layer become illegible, or the imprint at least so strong damaged becomes that correct deciphering significant is difficult.

A such application is for example known from Sweden. There Kennzeichenschilder at motor vehicles labels with inspection numbers inertial must, whereby the inspection numbers are hidden by means of a scrape offable top layer. The labels including top layer are the conventional handling with a motor vehicle corresponding not only more or less extreme climatic conditions exposed, but also mechanical stresses, approximately by the brushes of a car wash installation or by falling rocks due to Strassensplit. This requires a very robust embodiment of the top layer, in order to avoid their inadvertent removal "gradually" due to the influences mentioned. The inspection numbers become telephone the notice of departure of the motor vehicle exposed and then the responsible motor vehicle originating exchange reported. Here it can come to problems, since scraping the top layer off requires the use of a sharp edged expedient due to their necessary robustness. By the use of the expedient the digits which can be uncovered can become in such a manner scratched that they are illegible and to and for itself simple process of the telephone would notify to the inspection number becomes impossible, and of the motor vehicle owner expensive official assistance in claim taken will must.

The object of the instant invention consists now of creating a label that initially mentioned type with which the top layer is not to a so stable that it cannot be inadvertently scraped off, on the other hand however when desired scraping the top layer off with an expedient the hidden informations becomes illegible.

In particular the object of the instant invention consists also of creating a label which hidden informations for control purposes contains and in addition suitable is, at an exposed, longer time of the weather exposed location, for example on the number sign of a motor vehicle, these informations with a top layer reliable to cover, until due to certain circumstances displayed is, the informations bottom aid of a tool, about a screwdriver blade opening.

This object becomes according to the invention by a label covering informations dissolved, which exhibits at least a base layer as well as at least a top layer, which is more removable the base layer at least partial hidden and by scratching irreversible, in order to make the hidden informations, which are more visible arranged between the base layer and the top layer, and which exhibits besides a transparent intermediate foil between the base layer and the top layer, whereby the informations which can be covered are arranged underneath the intermediate foil. The intermediate foil, which preferably consists of acrylate, possible it, to realize opposite unwanted scraping off a very stable top layer without with the desired removal of the top layer, for example bottom aid of a tool, which becomes illegible informations which can be uncovered, since latter by the intermediate foil protected are.

In one preferable embodiment particularly exhibits the label at least part-laminar on that the top layer of opposite side of the base layer an adhesive layer. Thus the label in the frame of the production can become otherwise detention-decreasing on a silikonisierten or coated carrier material arranged and glue on the use of this simple detached and the destination.

After a favourable development a protective layer is arranged at least on that the intermediate foil of opposite side of the top layer. Here it can preferably concern a stable finish coating. The protective layer provides for a better protection of the top layer against undesirable damages.

In an other favourable embodiment the base layer on that is the top layer of facing side retroreflective coated.

Preferably the informations are printed on a color layer at least partly covering the base layer.

In an other favourable embodiment the label on that exhibits the top layer of opposite side of the intermediate foil at

least part-laminar an adhesive layer.

In a prefered development of the invention the intermediate foil exhibits an imprint. This possible if the top layer only a part of the intermediate foil covered, various organization possibilities, for instance the visible equipment of the label with brands, national emblems or Zierelementen. Preferably also the top layer on their exhibits the base layer of opposite side an imprint.

In an other favourable development the label exhibits a security feature, with which it favourable-proves at least a Anstanzung concerns. With the experiment to remove the label unauthorized from its destination to this tears at the Anstanzungen divides.

* top

In an other favourable embodiment the label exhibits an hologram as authenticity characteristic. Due to the expensive, a certain technical know-how presupposing production of an hologram are thus falsifications to a large extent precluded. Also different authenticity characteristics, approximately in form of special stamping or color design, are more conceivable.

In one preferable embodiment is particularly the label UVstable, so that it does not become also destroyed with application of many years in the free one by sun exposure.

Appended one becomes the invention on the basis an embodiment, which in the accompanying drawing shown is, more near explained. Fig. 1 shows here in schematic sectional view the layer structure of a label according to invention in prefered embodiment. The illustration is not full-scale, especially the layer thickness for descriptiveness reasons is strong enlarged drawn.

The base layer 1 in Fig. 1 represented labels consists of a plastic film and is provided at their underside with an adhesive layer 5 from an strong-adhesive bonding emulsion. On its top the base layer 1 carries a retroreflective coating 7, through which partial by the transparent intermediate layer 4 is more visible, and thus to the optical design of the label contributes as well as a certain authenticity characteristic represents. On the retroreflective coating 7 are two different rear colors 8a and 8b applied. On the rear dye film 8a are with ink contrasting for this the informations 3, for example number and letter symbols, printed which can be covered. For the imprint various printing methods come into question, for example electricalphotographic methods as for instance laser pressure. By means of a stable adhesive layer 9 the transparent intermediate layer 4 on the coated and printed base layer, existing from an acrylate film, is 1 attached. The intermediate layer 4 is, for example with a primer, pretreated, in order to ensure a stable adhesion of the top layer 2 on the intermediate layer 4. The top layer 2, which is in the area of the informations which can be covered 3 4 arranged on the intermediate layer, is opaque and hidden thus the informations 3. It can become by scraping off by means of a sharp-edged subject-matter, for example a coin or a screwdriver blade, remote, in order to make the informations 3 more visible. Here the preserved intermediate layer 4 the informations 3 versehnlich with to be scraped off. In order to make the top layer more robust 2 against inadvertent removal by schleissende influences, is these with a finish coating 6 coated.